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RAW SEQUENCE LISTING

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PATENT APPLICATION: US/09/601,168A

TIME: 13:57:15

Input Set : N:\paola\US09601168A.RAW
Output Set: N:\CRF3\06272002\I601168A.raw

1 <110> APPLICANT: BENAROUS, Richard MARGOTTIN, Florence DURAND, Herve 3 ARENZANA SEISDEDOS, Fernando KROLL, Mathias CONDORCET, Jean-Paul 7 <120> TITLE OF INVENTION: Human beta-TrCP protein 8 <130> FILE REFERENCE: 935.38812X00 9 <140> CURRENT APPLICATION NUMBER: US/09/601,168A 10 <141> CURRENT FILING DATE: 2000-07-28 11 <150> PRIOR APPLICATION NUMBER: PCT/FR99/00196 **ENTERED** 12 <151> PRIOR FILING DATE: 1999-01-29 13 <150> PRIOR APPLICATION NUMBER: FR98 01100 14 <151> PRIOR FILING DATE: 1998-01-30 15 <150> PRIOR APPLICATION NUMBER: FR98 15545 16 <151> PRIOR FILING DATE: 1998-12-09 17 <160> NUMBER OF SEQ ID NOS: 8 18 <170> SOFTWARE: PatentIn Ver. 2.1 20 <210> SEO ID NO: 1 21 <211> LENGTH: 2151 22 <212> TYPE: DNA 23 <213> ORGANISM: Artificial sequence 24 <220> FEATURE: 25 <221> NAME/KEY: CDS 26 <222> LOCATION: (70)..(1776) 27 <223> OTHER INFORMATION: Description of the artificial sequence : cDNA coding for human beta-TrCP protein 29 <400> SEQUENCE: 1 tgcgttggct gcggcctggc accaaagggg cggccccggc ggagagcgga cccagtggcc 60 30 teggegatt atg gae eeg gee gag geg gtg etg eaa gag aag gea ete aag 111 31 Met Asp Pro Ala Glu Ala Val Leu Gln Glu Lys Ala Leu Lys 32 33 1 ttt atg aat tcc tca gag aga gaa gac tgt aat aat ggc gaa ccc cct 159 34 Phe Met Asn Ser Ser Glu Arg Glu Asp Cys Asn Asn Gly Glu Pro Pro 35 25 36 agg aag ata ata cca gag aag aat tca ctt aga cag aca tac aac agc 207 37 Arg Lys Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser 38 39 40 tgt gcc aga ctc tgc tta aac caa gaa aca gta tgt tta gca agc act 255 40 Cys Ala Arg Leu Cys Leu Asn Gln Glu Thr Val Cys Leu Ala Ser Thr 41 50 55 42 gct atg aag act gag aat tgt gtg gcc aaa aca aaa ctt gcc aat ggc 303 43 Ala Met Lys Thr Glu Asn Cys Val Ala Lys Thr Lys Leu Ala Asn Gly

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TIME: 13:57:15
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PATENT APPLICATION: US/09/601,168A

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Output Set: N:\CRF3\06272002\I601168A.raw

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47					Ile												5	
	1111	80	SCI	Mec	TIC	Vul	85	цуз	GIII	Arg	шуз	90	DCI	miu	DCI	-1-	9	
48	~~~		~~~	224	~~~	a+ a		a+ o	222	tan	+++		a a a	taa	toa	αaα	22	
49					gaa												B	
50		гаг	GIU	гуѕ	Glu		Cys	Val	гуѕ	тйт		GIU	GIII	тъ	Ser	110		
51	. 95					100					105				L L		4 4 77	
52					gaa												447	
53	Ser	Asp	GIn	Val	Glu	Pne	Val	GIu	HIS		тте	ser	GIN	мет		HIS		
54					115					120					125		405	
55					cac												495	
56	Tyr	Gln	His	_	His	Ile	Asn	Ser	_	Leu	Lys	Pro	Met		GIn	Arg		
57				130					135					140				
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59	Asp	Phe	Ile	Thr	Ala	Leu	Pro	Ala	Arg	Gly	Leu	Asp		Ile	Ala	Glu		
60			145					150					155			•		
61					tac												591	
62	Asn	Ile	Leu	Ser	Tyr	Leu	Asp	Ala	Lys	Ser	Leu	Cys	Ala	Ala	Glu	Leu		
63		160					165					170						
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65	Val	Cys	Lys	Glu	\mathtt{Trp}	Tyr	Arg	Val	Thr	Ser	Asp	Gly	Met	Leu	\mathtt{Trp}	Lys		
66	175					180					185					190		
67	aag	ctt	atc	gag	aga	atg	gtc	agg	aca	gat	tct	ctg	tgg	aga	ggc	ctg	687	
68	Lys	Leu	Ile	Glu	Arg	Met	Val	Arg	Thr	Asp	Ser	Leu	Trp	Arg	Gly	Leu		
69	-				195					200					205			
70	qca	gaa	cga	aga	gga	tgg	gga	cag	tat	tta	ttc	aaa	aac	aaa	cct	cct	735	
71					Gly													
72			_	210	_	_	_		215			_		220				
73	σac	aaa	aat	qct	cct	ccc	aac	tct	ttt	tat	aqa	qca	ctt	tat	cct	aaa	783	
74					Pro													
75	-	-	225					230		_	_		235	_		_		
76	att	ata	caa	gac	att	qaq	aca	ata	qaa	tct	aat	tgg	aga	tgt	qqa	aga	831	
77					Ile													
78		240					245					250	_	-	-	•		
79	cat.	agt.	tta	caq	aga	att	cac	tac	сча	agt	qaa	aca	agc	aaa	qqa	gtt	879	
80					Arg													
81	255				5	260			,		265			-	-	270		
82		tat	tta	cag	tat		gat.	caσ	aaa	at.a		aσc	aac	ctt	сσа	gac	927	
83					Tyr													
84	-1-	0,0		01	275			01	-1-	280	,		1		285			
85	aac	aca	atc	ааσ	atc	taa	αat	aaa	aac		ttα	αаа	tac	ааσ		at.t.	975	
86					Ile													
87	non	# 111	110	290				-10	295				0,10	300	5			
88	ctc	202	aac		aca	aat	tca	atc		tat	ctc	саσ	tat		σασ	aσa	1023	
89					Thr												1023	
90	neα	7 117	305	ura	T 11T	O T Y	DCI	310	Leu	Cys	LCu	- LII	315		Jiu	*** 9		
90 91	a+ ~	atc		202	gga	t 02	ton		tee	aco	ata	ara		taa	αat	αta	1071	
					Gly												10/1	•
92	Val		116	THE	сту	Ser		usb	SET	TIIL	val	330	Val	тъ	ռոր	V CL		
93		320					325					330						

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/601,168A

DATE: 06/27/2002 TIME: 13:57:15

Input Set : N:\paola\US09601168A.RAW
Output Set: N:\CRF3\06272002\I601168A.raw

94 95	Asn										cac His						1119
96	335					340					345					350	
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98	Leu	His	Leu	Arg		Asn	Asn	Gly	Met		Val	Thr	Cys	Ser	_	Asp	
99					355					360					365		
100					-		_		_				_			ctc	1215
101	Arg	, Ser	. ITE			Trp	Asp	Met			Pro	Thi	Asp			Leu	
102				370					375					380			
103																ttt	1263
104	Arg	Arg			vaı	GIY	Hls	_		I Ala	ı vaı	Asn			. Asp	Phe	
105			385					390					395				1011
106																gta	1311
107 108	ASL	400	_	туг	ire	vaı	405		ı sei	. GIA	' Asp	410		TTE	э гух	vai	
100	+ ~ ~			204	2.at	+ ~+			- ~+-					. ~~			1250
110											Thr					aaa	1359
111	415		1 1111	ser	1111	420		PILE	e vai	. AIG	425		I ASI	GIY	пта	ь Lys 430	
112			2++		+ 4+			+ = 0		, ,,,,	agg		· ata	a+o	+		1407
112	_			_	_	_	_			_	ayy Arg	_	_		_		1407
114	ALG	СТУ	110	. Ala	435	пец	GIII	тут	. AIG	440	_	TIEU	· val	. vaı	. 3e1 445	_	
115	tca	tot	αac			ato	ana	tta	+ 40		ata	ma a	tat	aat			1455
116			-				_			-	. Ile	-	_		-	_	1433
117	Der	Dei	LSP	450		110	лгу	пес	455	_	, 116	GIU	. Cys	460		Суз	
118	tta	caa	ata			aac	cat	σan			gtg	cat	tat			+++	1503
119											Val						1303
120	200		465			01		470			. , ,	9	475		9	1110	
121	αat	aac			ata	atc	aσt			tat	gat	gga			ааа	ata	1551
122	_		_			-	_		_		Asp						1331
123		480	_	,			485	_		- 1 -		490	_		-1-	,	
124	taa			. ata	qct	act			cac	cat	gct			aaa	aca	ctc	1599
125		-			-	-	_	_		_	Āla		_				
126	495	_				500		-			505			-		510	
127	tgt	. cta	cgg	acc	ctt	gtg	gag	cat	tcc	gga	aga	gtt	ttt	cga	cta	cag	1647
128											Arg						
129					515					520	_				525		
130	ttt	gat	gaa	ttc	cag	att	gtc	agt	agt	tca	cat	gat	gac	aca	atc	ctc	1695
131	Phe	Asp	Glu	Phe	Gln	Ile	Val	Ser	Ser	Ser	His	Asp	Asp	Thr	·Ile	Leu	
132				530					535	,				540			
133			_				_				caa		_				1743
134	Ile	Trp	Asp	Phe	Leu	Asn	Asp	Pro	Ala	Ala	Gln	Ala	Glu	Pro	Pro	Arg	
135			545					550					555				
136													ataa	cca	taca	ctgaco	1796
137	Ser			Arg	Thr	Tyr		_	· Ile	Ser	Arg						
138		560					565										
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140																agcagg	
141																actcag	
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156		Asn	Ser	Ser	Glu	Arg	Glu	Asp	Cys	Asn	Asn	Gly	Glu	Pro	Pro	Arg	Lỳs	
157					20					25					30			
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159				35					40					45				
160		Arg	Leu	Cys	Leu	Asn	Gln	Glu	Thr	Val	Cys	Leu	Ala	Ser	Thr	Ala	Met	
161		_	50	_				55					60					
162		Lys	Thr	Glu	Asn	Cys	Val	Ala	Lys	Thr	Lys	Leu	Ala	Asn	Gly	Thr	Ser	
163		65					70					75					80	
164		Ser	Met	Ile	Val	Pro	Lys	Gln	Arg	Lys	Leu	Ser	Ala	Ser	Tyr	Glu	Lys	
165						85					90					95		
166		Glu	Lys	Glu	Leu	Cys	Val	Lys	Tyr	Phe	Glu	Gln	Trp	Ser	Glu	Ser	Asp	
167					100					105					110			
168		Gln	Val	Glu	Phe	Val	Glu	His	Leu	Ile	Ser	Gln	Met	Cys	His	Tyr	Gln	
169				115					120					125				
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171			130					135					140					
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173		145					150					155					160	
174		Leu	Ser	Tyr	Leu	Asp	Ala	Lys	Ser	Leu	Cys	Ala	Ala	Glu	Leu	Val	Cys	
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177					180					185					190			
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189				275					280					285			_	
190		Ile		Ile	\mathtt{Trp}	Asp	Lys		Thr	Leu	Glu	Cys		Arg	Ile	Leu	Thr	
191			290					295					300					
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RAW SEQUENCE LISTING DATE: 06/27/2002 PATENT APPLICATION: US/09/601,168A TIME: 13:57:16

Input Set : N:\paola\US09601168A.RAW
Output Set: N:\CRF3\06272002\1601168A.raw

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195	325 330 335	
196	Gly Glu Met Leu Asn Thr Leu Ile His His Cys Glu Ala Val Leu His	
197	340 345 350	
198	Leu Arg Phe Asn Asn Gly Met Met Val Thr Cys Ser Lys Asp Arg Ser	
199	355 360 365	
200	The Ala Val Trp Asp Met Ala Ser Pro Thr Asp Ile Thr Leu Arg Arg	
201	370 375 380	
202	Val Leu Val Gly His Arg Ala Ala Val Asn Val Val Asp Phe Asp Asp	
203	390 395 400	
204	Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr Ile Lys Val Trp Asn	
205	405 410 415	
206	Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn Gly His Lys Arg Gly	
207	420 425 430	
208	le Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val Val Ser Gly Ser Ser	
209	435 440 445	
210	Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys Gly Ala Cys Leu Arg	
211	450 455 460	
212	Val Leu Glu Gly His Glu Glu Leu Val Arg Cys Ile Arg Phe Asp Asn	
213	470 475 480	
214	Lys Arg Ile Val Ser Gly Ala Tyr Asp Gly Lys Ile Lys Val Trp Asp	
215	485 490 495	
216	Leu Val Ala Ala Leu Asp Pro Arg Ala Pro Ala Gly Thr Leu Cys Leu	
217	500 505 510	
218	arg Thr Leu Val Glu His Ser Gly Arg Val Phe Arg Leu Gln Phe Asp	
219	515 520 525	
220	Glu Phe Gln Ile Val Ser Ser Ser His Asp Asp Thr Ile Leu Ile Trp	
221	530 535 540	
222	Asp Phe Leu Asn Asp Pro Ala Ala Gln Ala Glu Pro Pro Arg Ser Pro	
223	545 550 555 560	
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225	565	
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	LENGTH: 19	
229 <212>		
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231 <220>		
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	SEQ ID NO: 4	
	LENGTH: 20	
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	SEQUENCE: 4	
242 (400)	ggtgaatcaa cgtgtttagc 20	
243	gycyddicad cycyccage 20	

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/601,168A

DATE: 06/27/2002 TIME: 13:57:17

Input Set : N:\paola\US09601168A.RAW
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:4; Line(s) 241
Seq#:6; Line(s) 259

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/601,168A

DATE: 06/27/2002 TIME: 13:57:17

Input Set : N:\paola\US09601168A.RAW
Output Set: N:\CRF3\06272002\I601168A.raw

L:9 M:270 C: Current Application Number differs, Wrong Format